PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's o r agent' s file reference 32993-74744	FOR FURTHER see Form PCT/ISA/220 ACTION as well as, where applicable, item 5 below.				
International application No. PCT/US04/08477	International filing date (day/month/ye 19 March 2004 (19.03.2004)	(Earliest) Priority Date (day/month/year) 20 March 2003 (20.03.2003)			
Applicant ADVANCED RESEARCH AND TECHNOLOGY INSTITUTE, INC.					
This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau. This international search report consists of a total of sheets. It is also accompanied by a copy of each prior art document cited in this report. 1. Basis of the Report a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item. The international search was carried out on the basis of a translation of the international application					
furnished to this Author b. With regard to any nucleoti Certain claims were found Unity of invention is lackin With regard to the title, the text is approved as subm	rity (Rule 23.1(b)). de and/or amino acid sequence disclos unsearchable (See Box No. II) ng (See Box No. III) itted by the applicant.	sed in the international application, see Box No. I.			
the text has been established	by this Authority to read as follows:	•			
	, according to Rule 38.2(b), by this Autl	hority as it appears in Box No. IV. The applicant search report, submit comments to this Authority.			
as suggested by the as selected by this A	authority, because the applicant failed to	o suggest a figure.			

Form PCT/ISA/210 (first sheet) (January 2004)

INTERNATIONAL SEARCH REPORT

International application No.

P.CT/US04/08477

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)				
This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:				
Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:				
2. Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:				
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).				
Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)				
This International Searching Authority found multiple inventions in this international application, as follows: Please See Continuation Sheet				
1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims. 2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee. 3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:				
4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1-8 Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.				

Form PCT/ISA/210 (continuation of first sheet(2)) (January 2004)

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/08477

		101/0304/004//			
A. CLASSIFICATION OF SUBJECT MATTER					
IPC(7)	: C12Q 1/54				
US CL	: 435/14				
According to International Patent Classification (IPC) or to both national classification and IPC					
B. FIELDS SEARCHED					
3.61 1 1.					
	cumentation searched (classification system followed b	by classification symbols)			
U.S. : 43	35/14	·ē.			
Documentatio	on searched other than minimum documentation to the	extent that such documents are included in	n the fields searched		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched					
	i				
Electronic da	ta base consulted during the international search (name	e of data have and where practicable sear	rch terms used)		
	nts, PGPubs; STN - Registry, CAPlus	e of data base and, where practicable, scar	ten terms used)		
WEST - Tate	nts, 1 of ubs, 5114 Registry, ertifus				
C. DOCUMENTS CONSIDERED TO BE RELEVANT					
Category *	Citation of document, with indication, where a	opropriate, of the relevant passages	Relevant to claim No.		
X	US 5,543,054 A(CHARKOUDIAN, et al.) 06 Augus	1-4, 6			
	20.	st 1990 (00.00.1990), con 19, mes 1			
Y	20.		5, 7-8		
•			3, , 0		
Y	WANG, CHIN-YU and HSIEH, YOU-ZUNG, Anal	iveis of Chitin OligoSaccharides by	3-8		
1	Capilary Electrophoresis with Laser-Induced Fluores		3-6		
	2002, Vol. 979, pp. 431-438, especially Absract, 43				
-	2002, Vol. 979, pp. 431-436, especially Abstact, 43	1-45455, 450.	i		
37	Markey wifewill: Design 16 November 1094 (1	6 11 1094) 1 2	2.0		
Y	Methane, sulfinylbi, Registry, 16 November 1984 (1	0.11.1984), pp. 1-2.	3-8		
	·				
	*				
Further	documents are listed in the continuation of Box C.	See patent family annex.			
		"T" later document published after the inte	protional filing date or priority		
, s	pecial categories of cited documents:	date and not in conflict with the applic			
	defining the general state of the art which is not considered to be	principle or theory underlying the inve			
of particu	lar relevance	"X" document of particular relevance; the	claimed invention cannot be		
"E" earlier ap	plication or patent published on or after the international filing date	considered novel or cannot be considered			
		when the document is taken alone			
	which may throw doubts on priority claim(s) or which is cited to	"Y" document of particular relevance; the	claimed invention corner ha		
establish (the publication date of another citation or other special reason (as	considered to involve an inventive ster			
•		combined with one or more other such			
"O" document	referring to an oral disclosure, use, exhibition or other means	being obvious to a person skilled in the	e art		
"P" document	published prior to the international filing date but later than the	"&" document member of the same patent	family		
priority date claimed					
Date of the actual completion of the international search Date of mailing of the international search report					
		11 111 2000	11 11, 2000		
16 November	2004 (16.11.2004)	- 1 JAN ZUUD			
		Authorized officer Maria Jak			
Mail Stop PCT, Attn: ISA/US		3			
Commissioner for Patents		Jennifer Ione Harle			
P.O. Box 1450 Alexandria Virginia 22313-1450 Telephone No. (571) 272-1600					
Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230					
r.acomme ino	. (103) 303-3230				

Form PCT/ISA/210 (second sheet) (January 2004)